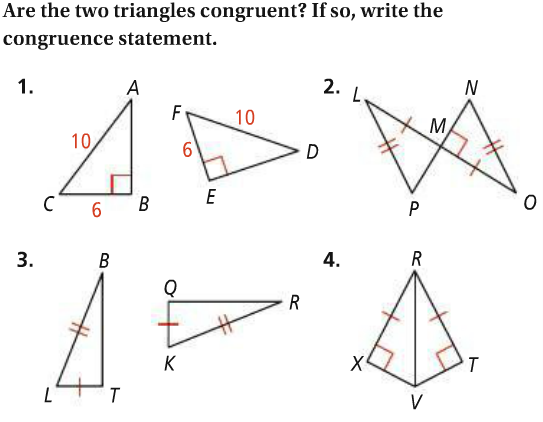
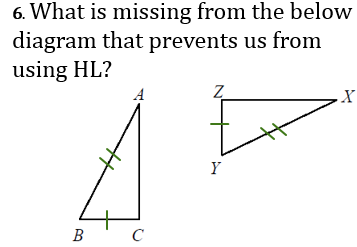
**Guided Notes for 4.6: Hypotenuse-Leg (HL) Theorem**

|  |  |
| --- | --- |
|  | What do you already know about the lesson objectives? What do you need to learn?  What can you deduce from the diagram to the left? What questions do you have? |
|  | What do you understand about the proof? What questions do you have? Can you make a two-column proof from the paragraph proof?  What are the three conditions for using HL? What additional information do we need to show that the two triangles at the left are congruent?  What do we need for the two triangles at the left? |
|  | For what values of ***x*** and ***y*** are the two triangles at the left congruent by HL?  Write a flow proof from the information provided to the left. |

**Choose any three questions to answer. Write your answers on a separate piece of paper. Be sure to put your name on it and rate yourself 1-4 on your understanding of the concept of the Hypotenuse-Leg theorem and using it in congruency problems.**



Self-assessment: at the bottom of your answer sheet write down how well you understand this concept from 1 to 4.

1: I don’t understand

2: I kind of understand

3: I understand but may need a little help

4: I understand and can explain it to others